68623

S/126/60/009/02/008/033

Investigation of the Saturated Vapour Tensions of Thallium

value of the vapour pressure was similar to that of  ${\rm Tl}_2{\rm Se}$  when Tl was used as a tracer. From further measurements it was shown that dissociation occurs as follows:

 $T1_2Se_5 \Rightarrow T1_2Se + 2Se$ .

A calculation of the heat of sublimation for the compounds gave the results: Tl<sub>2</sub>Se 26.90 kcal/g.mol; TlSe 30.84 kcal/g.mol and Tl<sub>2</sub>Se<sub>3</sub> 55.97 kcal/g.mol.

There are 1 figure and 6 Soviet references.

ASSOCIATION: Institut fiziki AN Azerb. SSR

(Institute of Physics of the Ac.Sc.. Azerbaidzhan SSR)

SUBMITTED: May 15, 1959

Card 2/2

ABDULLAYEV, G.B., SHAKHTAKHTINSKIY, M.G., KULIYEV, A.A.

Studying the elasticity of saturated vapors of the system SeTe. Dokl.AN Azerb.SSR 16 no. 3;219-222 '60. (MIRA 13:7)

1. Institut fiziki AN AzerSSR.
(Selenium) (Tellurium)

S/137/62/000/002/001/1 A006/A101

AUTHORS:

Shakhtakhtinskiy, M. G., Kuliyev, A. A., Abdullayev, G. B

TITLE

Investigating the tension of saturated vapors of some selenides by

the radio-isotope method

PERTODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 5, abstract 2A20 (V sb. "Vopr. metallurgii i fiz. poluprovodnikov", Moscow, AN SSSR,

1961, 38-42)

TEXT: The investigation was carried out by the Knudsen method. A schematic diagram of the device is given. With the aid of this device it is possible to determine the vapor tension at various temperatures without disturbing the vacuum. For a synthesis of selenides, Se, Tl and Sb of 99.9% purity were placed into a quartz ampoule which was evacuated to  $10^{-1}$  mm Hg. Each compound was prepared twice with active Se<sup>75</sup>, Tl<sup>204</sup> or Sb<sup>124</sup>. Vapor tensions of compounds TlSe, Tl<sub>2</sub>Se and Sb<sub>2</sub>Se<sub>3</sub>, measured over both components, have equal of compounds TlSe, Tl<sub>2</sub>Se and Sb<sub>2</sub>Se<sub>3</sub>, measured over both components, have equal values, i.e. during evaporation of these substances, there is no dissociation in the solid phase. The same agreement of values is observed for Tl<sub>2</sub>Se up to 200°C. It is supposed that Tl<sub>2</sub>Se<sub>3</sub> dissociates according to the scheme Tl<sub>2</sub>Se<sub>3</sub>  $\rightarrow$  Tl<sub>2</sub>Se<sup>1</sup>+2Se

Card 1/2

Investigating the tension of saturated ...

S/137/62/000/002/001/144 A006/A101

Vapor tension p as a function of temperature T is described by the following equations: for  $Tl_2Se\ lgp = -(5880.9/T) + 9.8052$ ; for  $TlSe\ lgp = -(6742.2/T) + 12.443$ ; for  $Tl_2Se_3\ lgp = -(7425.5/T) + 9.2481$ ; for  $Sb_2Se_3\ lgp = -(6432.3/T) + 8.7906$ . Calculation of sublimation heats for the aforementioned compounds yields the following values in kcal/g-mole:  $Tl_2Se_3\ 33.972$ ,  $Sb_2Se_3\ 29.589$ .

T. Kolesnikova

[Abstracter's note: Complete translation]

Card 2/2

43134 s/181/62/004/011/038/049 B108/B186

127570

Ibragimov, N. I., Shakhtakhtinakiy, M. G., and Kuliyev, A. A.

AUT HORS:

Diffusion and electrical transfer of thallium in tellurium

TITLE:

Fizika tverdogo tela, v. 4, no. 11, 1962, 3321-3325

TEXT: Purified tellurium powder was pressed into the shape of little cylinders which then were sintered at 420-430°C. Other specimens to be tested were single crystals grown along the C crystal axis from purified tellurium. The tracer isotope T1-204 was applied to one polished side of each specimen, after which pairs of specimens were formed by sticking these sides together. Direct current of 30-40 a/cm2 was sent across the joints in transfer experiments. After diffusion and annealing (10-300 hrs) thin successive layers were removed from the specimens to determine the thallium concentration. The tests were made at temperatures of from 430 to 360°C. The diffusion coefficient for thallium in tellurium was found to be

D<sub>polycryst</sub>. 3.2.10<sup>2</sup>exp(-41.0/RT)cm<sup>2</sup>/sec D<sub>C</sub> = 8.5.10<sup>11</sup> exp(-73.1/RT)cm<sup>2</sup>/sec Card 1/2

Diffusion and electrical transfer ...

S/181/62/004/011/038/049 B108/B186

 $D_{C} = 1.8 \cdot 10^{16} \exp(-84.4/RT) \text{cm}^{2}/\text{sec}$ .

Within the temperature range in question, p-type conductivity is dominant in tellurium. Probably thallium diffusion in tellurium takes the form of positive ions. Entrainment of the thallium ions by holes in tellurium was observed. This effect becomes more intense as temperature increases. There are 2 figures and 1 table.

ASSOCIATION: Institut fiziki AN AZSSR, Baku (Physics Institute AS AZSSR, Baku)

SUBMITTED: May 28, 1962 (initially); July 15, 1962 (after revision)

Card 2/2

s/181/63/005/003/023/046 3102/3:80

AUTHORS:

Ibragimov, N. U., Statchtakhrinskiy, M. G., and Kuliyev, A. A.

Effect of an electric field on thallium diffusion in

TITLE:

germanium single crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 862-864

TEXT: Own and foreign results on thallium thermodiffusion in the presence of a constant electric field are discussed. Measurements were made with Ge single crystals  $10.5.6~\mathrm{mm}^3$  in size with 7,30 ohm.cm in the temperature range  $910-800^{\circ}\text{C}$  ( $\pm 5^{\circ}$ ). Diffusion times were 12 to 200 hrs, and  $Tl^{204}$  was used as a tracer. The effective ion mobility  $B^*$  and the effective charge Z' were determined, the latter from the resultant force  $F = eE(Z+nl\sigma)=Z^2eE$ , 1 being the mean free path and  $\sigma$  the electron-ion scattering cross section ( $\sigma: 10^{-12}-10^{-13}$  cm<sup>2</sup>). The thallium migration scattering cross section (0:10 -10 cm ). The thairium migration toward the anode in fields of 0.4 - 0.7 v/cm showed definite temperature dependence for the effective charge:

Card 1/2

## "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548410007-1

S/181/63/005/003/023/046 Effect of an electric field on thallium...B102/B180

T, OK	Z , e	B, cm <sup>2</sup> /v·sec
1180	100	4.8.10 <sup>-9</sup>
1120	32	2.7.10 <sup>-10</sup>
1070	12	1.8.10 <sup>-11</sup>

This can be attributed to entrainment of the thallium - ions by the germanium conduction electrons.

There are 1 figure and 1 table.

ASSOCIATION: Institut fiziki AN AZSSR, Baku (Institute of Physics

AS AZSSR, Baku)

SUBMITTED: October 19, 1962

Card 2/2

SHAKHTAKHTINSKIY, M.G.

Use of radioisotopes in studying the saturated vapors of certain semiconductors. Trudy Inst. fiz. AN Azerb. SSR 11:52-107 '163.

(MIRA 16:4)

(Semiconductors)

(Radioisotopes)

ARCESSION NR: AR4041540

S/0137/64/000/004/I001/I001

SOURCE: Ref. zh. Metallurgiya, Abs. 412

AUTHOR: Abdullayev, G. B.; Movlanov, Sh.; Shakhtakhtinskiy, M. G.; Kuliyev, A. A.

TITLE: Investigation of solubility of selenium and mercury in solid tellurium and their influence on electrical properties of tellurium

CITED SOURCE: Izv. AN TadzhSSR. Otd. geol.-khim. i tekhn. n., no. 2 (11), 1963, 13-22

TOPIC TAGS: selenium, mercury, tellurium, solubility, electrical property, retrogradation, electrical conductivity

TRANSLATION: Studies solubility of Se in Te (in interval 320-400°) and Hg in Te (in intervals 270-440°). Solubility of Hg in Te increases with increase of temperature and attains maximum (4.10<sup>20</sup> to 18 per cubic centimeter) at 370°

Card 1/2

CIA-RDP86-00513R001548410007-1"

APPROVED FOR RELEASE: 08/23/2000

ACCESSION NR: AR4041540

and then drops, and at 440° becomes equal to 1.10<sup>20</sup> atoms per cubic centimeter. Solubility of Se in Te is greater than solubility of Hg in Te. In temperature dependence of solubility of Hg in Te there is observed retrogradation, which is absent in the system Te-Se. There are measured electrical conductivity of alloys Te-Se and Te-Hg in interval from -190° to -150° and the Hall effect at liquid nitrogen and room temperatures. It is found that Hg with a content of ~1% significantly increases electrical conductivity of Te, and Se almost does not change it. Bibliography: 24 references.

SUB CODE: IC, GC

ENCL: 00

Card 2/2

L 2790-66 EWT(m)/T/EWP(b)/EWP(b)/EWA(c) LJP(c) JD

ACCESSION NR: AP5022247

UR/0363/65/001/007/1021/1024 546.86'191-165:536.495

4 B

AUTHOR: Abrikosov, N. Kh.; Tomtiyev, D.; Shakhtakhtinskiy, M. G.; Kuliyev, A. A.

TITLE: Thermoelectric properties of antimony-arsenic solid solutions

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965, 1021-1024

TOPIC TAGS: thermoelectromotive force, solid solution, antimony alloy, arsenic, bismuth alloy, electric conductivity, thermoelectric property

ABSTRACT: Antimony-arsenic solid solutions containing up to 19.5% As, prepared from the elements, were used to grow single crystals, whose electrical conductivity of thermo-emf (a), and Hall emf were measured. At room temperature, both of and a decrease with rising arsenic concentration. Since in the Sb-As system the carrier concentration is virtually independent of composition, the drop in of is due to a decrease in the carrier mobility, which in turn is caused by the distortion of the lattice by the arsenic. In contrast to Bi-Sb solutions, Sb-As solutions were found to have no magnetoresistance at low magnetic field strengths. In the 100-300K temperature range, the thermo-emf rises with the temperature in both pure antimony and the solid solutions, hole conduction being preserved. In

J. 2790-66		
ACCESSION NR: AP5022247	,	
contrast to the Bi-Sb system	n, no semiconducting properties are displayed by the quid nitrogen temperature; this difference may be due	
to the greater overlapping of	of the bands of arsenic and antimony, which may also	
	ture of the conductivity in the temperature range	
studied. Orig. art. has: 5	) IIgures.	
	ci Akademii nauk Azerb. SSR (Institute of Physics,	_
Academy of Sciences, Azerb.	SSR)	
		14.1
SURMITTED: 06Feb65	ENCL: 00 SUB CODE: SS, IC	
SUEMITTED: 06Feb65  NO REF SOV: 005	ENGL: 00 SUB CODE: SS, IC OTHER: 005	

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548410007-1

EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) 5083-66 UR/0070/65/010/005/0751/0754 ACC NR: AP5024563 44 548.5 AUTHOR: Tairov, S.I.; Tagirov, V.I.; Shakhtakhtinskiy, B TITLE: Preparation of single-crystal germanium-silicon alloys SOURCE: Kristallografiya, v. 10, no. 5, 1965, 44,65 TOPIC TAGS: single crystal growing, germanium alloy, silicon alloy ABSTRACT: The purpose of the work was to obtain homogeneous single crystals of a germanium-silicon alloy containing 15 at . % silicon, inasmuch as a pronounced change in the physical properties of Ge-Si alloys is observed in this region. Experiments showed that without a single-crystal seed of the alloy itself, single crystals of the Ge-Si system could be obtained only at extremely slow pulling rates which are very difficult to achieve in practice. The main difficulty, in addition to liquation, is the lack of a suitable seed. Single crystals of the Ge-Si alloy containing 15 at .% Si were grown by using a single-crystal seed of this alloy, and liquation was eliminated by selecting the melt composition in accordance with the composition of the grown solid phase based on the phase diagram, and by growing the crystal at a slow rate. The homogeneity of the sample was achieved by keeping the content of the melt constant. Orig. art. has: 2 figures. ASSOCIATION: Institut fiziki AN Azerb. SSR (Institute of Physics, AN Azerb. SSI SUB CODE: SS, MM ENCL: 00 SUBMITTED: 09Feb65 OTHER: 004 NO REF SOV: 006 1/1/h Card 09010198

ACC NR: AP6033269

SOURCE CODE:

UR/0020/66/170/004/0822/0824

AUTHOR: Davzhanov, Kh.; Shakhtakhtinskiy, M. G.; Tagirov, V. I.; Aliyeva, B. S.; Shilkin, A. I.; Kuliyev, A. A.

ORG: Institute of Physics, Academy of Sciences, AzerbSSR)

TITLE: High temperature inversion of the Hall coefficient in tellurium

SOURCE: AN SSSR. Doklady, v. 170, no. 4, 1966, 822-824

TOPIC TAGS: tellurium, Hall coefficient, temperature dependence, energy band structure, impurity conductivity

ABSTRACT: To obtain more information on the band structure and on the mechanism of impurity conductivity of tellurium, the authors measured the electric conductivity and the Hall coefficient of tellurium doped with thallium. In view of the low solubility of thallium in tellurium, the impurity concentration was determined by a radioactive tracer method. The apparatus and technique used to grow the tellurium single crystals were described elsewhere (Pribory i tekhn. experimenta no. 5, 172, 1961). The measurements were made by a standard method in the temperature interval 77 - 530K, both in the direction of the principal axis of the crystal and perpendicular to it. The results show that the Hall coefficient is independent of the direction of the crystallographic axes, but the electric conductivity is. In spite of the similarity between selenium and tellurium in structure, thallium has a different effect on the electric properties of tellurium than of selenium. The admixture of thallium greatly

Card 1/2

UDC: 539.293: 537

ACC NRI ap6033269

increases the electric conductivity of the tellurium, which remains of the p-type regardless of the thallium content. With increasing thallium content, the low temperature inversion point of the Hall coefficient shifts toward higher temperatures. The high temperature inversion point is shifted toward lower temperatures with increasing thallium concentration. A table of inversion temperatures as functions of the concentration is included. Although the number of holes per thallium atom is on the average 0.5, this still does not mean that the thallium atoms are direct acceptors in the tellurium lattice. The change in the second inversion point of the Hall coefficient of tellurium can be attributed either to the deformation of the energy band during the alloying of tellurium by thallium, or to the change of the density of states in the energy band. This report was presented by Academician N. P. Sazhin 10 January 1966. Orig. art. has: 2 figures and 1 table.

SUBM DATE: 04 Jan 66/ ORIG REF: 005/ OTH REF: 005

Card

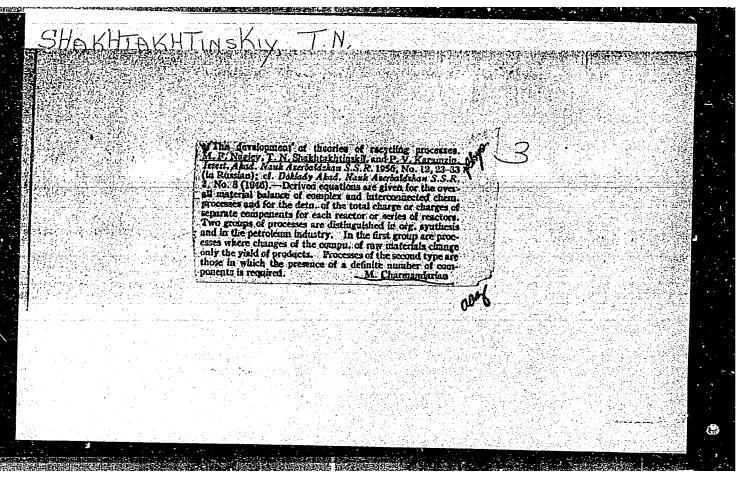
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Nagiev and T. T. Shakhtakhtinskil. Isrest, Akad, Nauk

Azerbadizhan. Sis. R. 1956. No. 1, 3-21(in. Russian).

Comparative crucking expts, were carried out on three feed stocks for 20-50 min. at 420-52, and 3 atm, pressure. The feed stocks used were heavy fuel oil, the propane-propylene deasphaltized residue from low-temp, crucking of heavy fuel oil, and the same residue after deasphaltizing with the liquefied butanc-propane fraction of natural gas. M. Z.



SHAKHTAKHTINSKIY, T. N.

20-3-43/59

AUTHORS:

Nagiyev, M.F., Member of the Academy of Sciences of the Azerbaydz han , SSR, Shakhtakhtinskiy, T.N., Karamzin, P.V.

TITLE:

Development of the Theory of Recirculation Processes (Razvitiye

teorii retsirkulyatsionnykh protsessov)

PERIODICAL:

Doklady Akad. Nauk SSSR, 1957, Vol. 115, Nr 3, pp.576-579 (USSR)

ABSTRACT:

The method of calculation proposed here develops the theory of recirculation and makes possible an evaluation of the efficiency of an arbitrary complex chemical processing of raw materials not only within one single plant, but within the framework of different chemical processes which are tied together. The most general scheme represents a system of closely connected complex chemical processes. (See fig 1). Into this scheme quantities \$10.520....\$0....\$mo are introduced, denoting charges 1,2.....,J,....m of the reactors with an independent (prescribed) amount of raw material, and give, 62'0 ..... 80'0 .... 8m'o dependent and the dependent dependent amounts of raw material. The independent and the dependent reactor charges with fresh raw material consist of the following

 $i_{y} = A_{y}$ ,  $B_{y}$ ,  $C_{y}$ ...; = 1.2...m

The author arrives at a system of equations and solves it by dividing the system into two parts. After the total charges have been

Card 1/3

Development of the Theory of Recirculation Processes. 20-3-43/59

cannot be known beforehand, because the amount of all the recirculant substances entering a reactor is unknown. If the variant computed appears to be undesired, the fresh supply of other components must be set equal to zero and the problem must be solved as many times until the desired variant has been found. In general the recirculants must not be carried away, but the desired composition should be obtained by an addition of the missing components from outside. Very often it can be immediately found, which component in each reactor of a dependent system possesses a fresh supply, which equals zero. There are 2 Slavic references and 1 figure.

ASSOCIATION: Petroleum Institute of the AN Azerbaydzhan SSR (Institut nefti AN A-zerbaydzhan SSR)

SUBMITTED: February 1:

SUBMITTED: February 11, 1957

AVAILABLE: Library of Congress.

Card 3/3

SHARHIAKH LINSKIY, T.N

11(4);5(3)

PHASE I BOOK EXPLOITATION

SOV/2624

Topchiyev, Aleksandr Vasil'yevich, Murtuza Fatullayevich Nagiyev, and Togrul Neymat ogly Shakhtakhtinskiy

Znacheniye nefti v proizvodstve sovremennykh sinteticheskikh materialov (Importance of Petroleum in Production of Modern Synthetic Materials) Moscow, Izd-vo AN SSSR, 1959. 126 p. (Series: Akademiya nauk SSSR. Nauchnopopulyarnaya seriya) Errata slip inserted. 15,000 copies printed. Ed. of Publishing House: B. E. Davydov; Tech. Ed.: I. A. Makogonova.

PURFCSE: This booklet is intended for persons studying problems of petroleum conversion and production of petroleum chemicals.

COVERAGE: The booklet describes the development of petroleum chemical synthesis, the chemical composition of crudes, different methods of crude oil conversion to obtain such synthetic materials as plastics, synthetic rubber, synthetic fiber, synthetic washing agents, and various perfumes and drugs. Further, the booklet discusses the fundamentals of the chemistry of hydrocarbons and their derivatives, and describes different petroleum conversion processes, such as cracking, pyrolysis, platforming, dehydration, polymerization, etc., the by-products of which are used in industrial organic

Card 1/4

Importance of Petroleum (Cont.)	7/2624
synthesis. Appendix contains numerous tables listing the of different hydrocarbons. There are 8 references, all Sov	characteristics
PABLE OF CONTENTS:	
Introduction	3
Ch. I. Fundamentals of the Chemistry of Hydrocarbons and Thei	r Derivatives 7
1. Brief information on hydrocarbons and their structures	7
2. General information on carbon compounds	10
3. Homologous series of hydrocarbons belonging to differen	it classes 17
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5. Hydrocarbon derivatives	214
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mportance of Petroleum (Cont.)	
n. II. Petroleum, Its Composition, and Properties	26
1. Elementary composition of petroleum	26
2. Chemical composition of petroleum groups and their separate fractions	27
3. Hydrocarbon composition of individual light petroleum fractions	34
h. TIT. Natural and Refinery Gas as Raw Material Used for Production of Systhetic Materials	38
h. IV. Modern Industrial Synthetic Materials With Crude Oil Base	46
<ol> <li>Major processes of petroleum chemical conversion yielding hydro- carbon stock employed in production of synthetic materials</li> </ol>	46
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Importance	of Petroleum (Cont.)	<b>SOV/</b> 2624	
Appendix			105
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		TM/os 12/22	2/59
			٠, .

Applying the theory of restroutation processes to the development of complete flow systems for the production of polymer compounds. Azerbakhim.zhur. no.1:3-10 '59.

(Polymers)

NAGIYEV, M.F.; KARAMZIN, P.V.; SHAKHTAKHTINSKIY, T.N.

Laws of recycling processes in chemical technology. Azerb.
khim.zhur. no.2:11-21 '60.
(MIRA 14:8)
(Chemical reaction--Conditions and laws)
(Petroleum--Refining)

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GADZHIYEV, T.A.; SHAKHTAKHTINSKIY, T.N.; KANDALOV, V.D., red.; RASHEVSKAYA, T.A., red. izd-va; AKHTEDOV, S., tekhn. red.

[Vinyl compounds | Vinilovye soedineniia. Baku, Azervaidzhanskoe gos. izd-vo, 1962. 269 p. (MTRA 15:9) (Vinyl compounds

SHAKHTAKHTINSKIY, T.N.; ANDREYEV, L.V.

Condensation of pentaerythritol with carbonyl compounds in the presence of the KU-2 cation exchanger. Dokl. AN Azerb. SSR 18 no.12:17-22 '62. (MIRA 16:11)

1. Institut neftekhimicheskikh protessesov AN AzerbSSR. Predstavleno akademikom AN AzerSSR A.M. Kuliyevym.

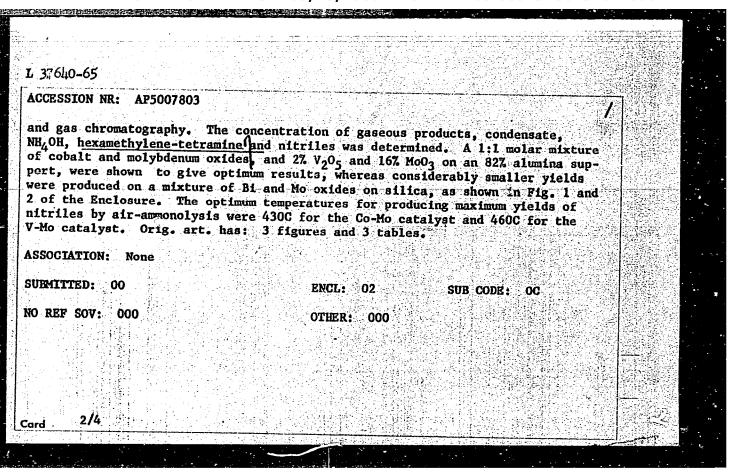
SHAKHTAKHTINSKIY, T.N.; SHTEYNGEL', A.S., red.

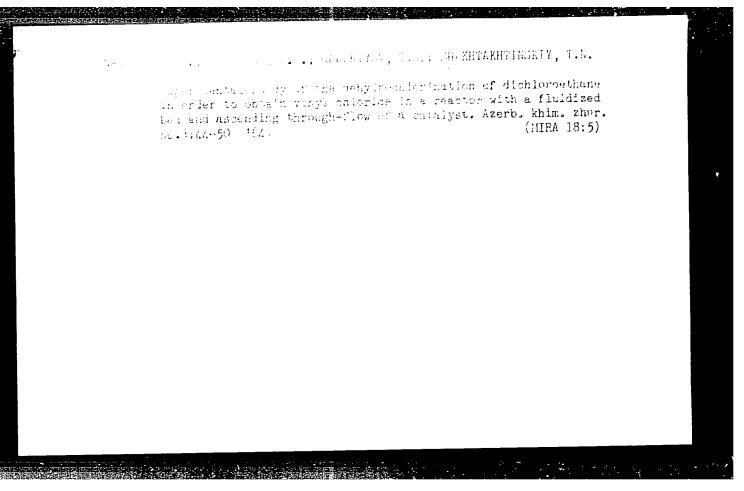
[Aliphatic oxygen-containing monomers and polymers] Alifaticheskie kislorodsoderzhashchie monomery i polimery.
Baku, Azerneshr, 1963. 150 p. (MIRA 17:5)

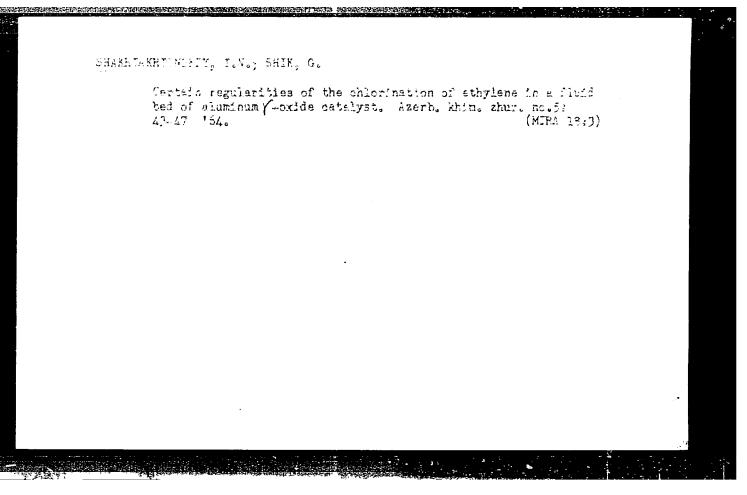
ALIYEV, A.A.; BUNIAT-ZADE, Z.A.; SHAKHTAKHTINSKIY, T.N., red.

[Oil and gas and their significance in the national economy] Neft' i gaz, ikh zmachenie v narodnom khoziaistve.
Baku, Azerneshr, 1964. 62 p. (MIRA 17:4)

37640-65 EPF(c)/EPR/ENP(j)/EMA(c)/ENT(m) Pc-4/Pr-4	02/0079/0084	35 34 8
CESSION NR: APSOUVOUS		
ITLE: Oxidative ammonolysis of an alkane mixture as a	and the first that the second of the second	nitrile
OURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 2, OPIC TAGS: nitrile synthesis, alkane ammonolysis, ox	idative amnoholysis, a alyst	<ul> <li>(i) the same that I was the displaying the factor.</li> </ul>
BSTRACT: Oxidative gas-phase ammonolysis of a mainly raction of 65C final boiling point was studied experiation conditions on a fluid bed of catalysts in order than conditions for producing a maximum yield of nitril and conditions for producing a maximum yield of nitril 32.87 wt% n-pentane, 26.77 wt% isopentane, 16.21 wt% 20.87 wt% n-pentane, 26.87 wt%	paraffinic hydrocard mentally under continu o select optimum catal es. The fraction, con methylpentane, 7.26 curated C <sub>6</sub> hydrocarbon	ntaining wt% s, was mmonia
eacted at 1:41:11 naphtha-air-ammonia ratios and also eacted at 1:41:11 naphtha-air-ammonia ratios and also eacted at 300-500C, 1700 hr-1 velocity and a 2.5 secon eacted catalysts, and the product composition was determined		

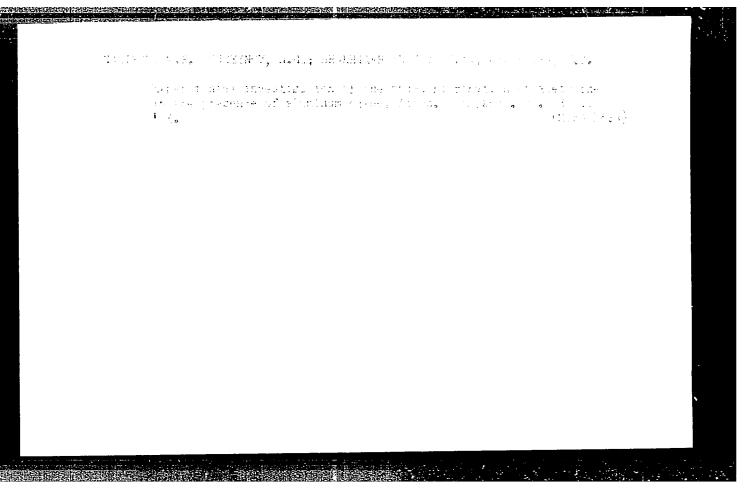






L 60257-65 EPF(n)=2/EWT(m)/EWP(b)/T/EWP(t)ACCESSION NR: AP5021065 UR/0316/64/000/004/0025/0028 AUTHOR: Shakhtakhtinskiy, T. N.; Aliyeva, K. Ya.; Kuliyeva, S. A. TITLE: Oxidative ammonolysis of the head fraction of low octane gasoline in the boiling layer of cobalt-molybdenum and variadium-molybdenum catalysts SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 4, 1964, 25-28 TOPIC TAGS: catalysis, ammonolysis, gasoline, cobalt compound, molybdenum compound, vanadium compound Abstract: In a continuation of investigation on the selection of catalysts and influence of temperature on the oxidative amonolysis of the head fraction (up to 65 C) of low-octane gasoline of a gas-condensate deposit for the production of aliphatic nitriles, the process was investigated on cobalt-molybdenum. and vanadiummolybdenum catalysts (mixture of cobalt and molybdenum oxides in 1:1 molar ratio and mixture of vanadium and molybdenum oxides, applied on aluminum oxide: 2% V205, 16% MoO3, 82% Al20,). The influence of excess ammonia, oxygen, and contact time on the yield of nitriles in percent by weight of the gasoline passed through was studied. Optimum systems of the process were established: 1) for the coblat-molybdenum catalyst -- temperature 430°C; gasoline:air (oxygen):amonia molar ratio 1:40 (8):30; contact Card 1/2

L 60257-65					
ACCESSION NR: AP50	21065				0  }
time 2.5-7.7 sec; f gasoline:dir (oxyge	n):emonia molar	ratio 1:20(4)	alyst temper	ature 460°C; intact 5.1 sec	
Orig. art. has 3 gr	aphs and 2 table				
ASSOCIATION: none					
SUBMITTED: 00		ENCL: 00	SUB	code: FP, GC	
NO REF SOV! OO1		OTHER: 000	JPRS		
bio					
Card 2/2					
<u> </u>					



SHAKHTASETHESKIY, T.B.; SABYKHOVA, Kh.1.; GADZHIYEVA, Kh.S.

Froduction of mulcic anhydride by catalytic oxidation of butylenes by air in the fluidized bed of the catalyst in a large pilot plant. Aze b. khim. zhur. no.3:80-83 165.

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

SHAKHTAKHTINSKIY, T.N.; SADYKHOVA, Kh.I.; FARBERG, Z.M.

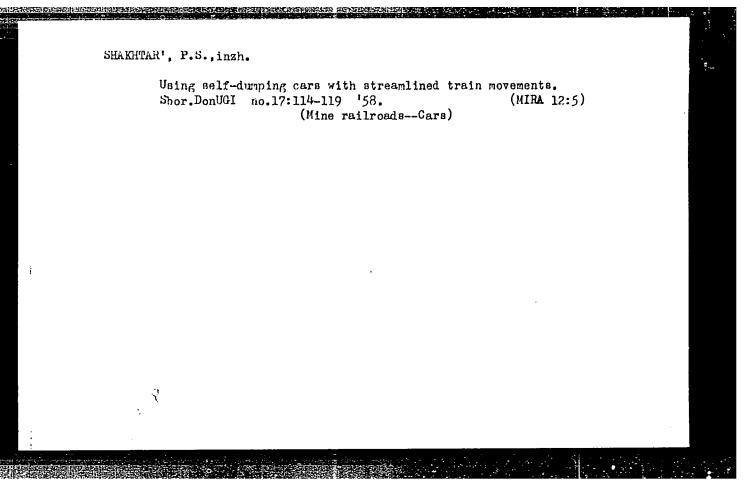
Preparation of maleic anhydride by the catalytic oxidation of butylenes in a fluidized bed of a catalyst. Azerb. Rhim. zhur. no. 2:91-94 '65. (MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. Suhmitted Sept. 10, 1964.

SHAKHTAR', P.S. inzhener.

Mechanizing coal loading into open railroad cars with a single control drive. Ugol' 32 no.6:29-31 Je '57. (MIRA 10:7)

1. Donetskiy ugol'nyy institut. (Coal handling machinery) (Remote control)



SHAKHTAR', P.S., inzh.

Use of drop-bottom mine cars. Ugol' 36 no.4:35-36 Ap '61.

(MIRA 14:5)

(Donets Basin---Mine railroads---Cars)

AND THE SECOND COMMENTS IN THE

RENGEVICH, A.A., kand.tekhn.nauk; SHAKHTAR', P.S., inzh.; VOLOD'KO, K.P., inzh.; YUSHCHENKO, A.I., inzh.; GALUSHKO, M.K., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk; KUDELYA, G.Ya., inzh.; MEYHEDA, M.K., inzh.; OKHRIMCHUK, O.Kh., tekhnik

Causes of the breaking of axles of electric mine locomotives.

Vop. rud. transp. no.6:192-203 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut (for Rengevich, Kuznetsov, Kudelya, Mekheda, Okhrimchuk). 2. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Shakhtar', Galushko). 3. Aleksandrovskiy mashinostroitel'nyy zavod (for Volod'ko, Yushchenko).

(Mine railroads) (Axles--Testing)

L 7831-66 EWT(d) ACC NR: AP5023116

SOURCE CODE: UR/0103/65/026/009/1563/1572

AUTHOR: Tikhonov, V. I. (Moscow); Shakhtarin, B. I. (Moscow)

28

ORG: none

TITLE: Statistical characteristics of the phase-type automatic frequency control

SOURCE: Avtomatika i telemekhanika, v. 26, no. 9, 1965, 1563-1572

TOPIC TAGS: automatic frequency control, synchronous reception

ABSTRACT: This is a continuation of an earlier author's work (Avt. i telemekhanika, v. 21, no. 3, 1960) where an approximate method of analyzing the phase AFC, operating under noise conditions, was developed. The present article develops approximate formulas for the average value, dispersion and number of phase jumps in the controlled oscillator for the case of nonzero initial detuning. It is found that the phase-difference probability-density curve is shifted and the

Card 1/2

UDC: 621.396.668

L 7831-66

ACC NR: AP5023116

phase-difference dispersion increases when the initial detuning increases. Also, the number of phase jumps, which characterizes a disturbance of the synchronous conditions in radio-reception systems, increases with decreasing signal-to-noise ratio. Several curves based on numerical calculations illustrate the theory. Orig. art. has: 8 figures and 65 formulas.

SUB CODE: 09 / SUBM DATE: 22Sep64 / ORIG REF: 006 / OTH REF: 004

Card 2/2

### CIA-RDP86-00513R001548410007-1 "APPROVED FOR RELEASE: 08/23/2000 THE STATE OF THE STATE OF THE PROPERTY OF THE STATE OF TH

UR/0106/66/000/009/0018/0023 SOURCE: CODE: 1.7558-66 29 ACC NR: AP6032288

AUTHOR: Shakhtarin, B. I.; Shchepkin, Yu. N.

TITLE: An experimental study of fluctuation noise effects on phase-lock frequency ORG: none

control

SOURCE: Elektrosvyaz', no. 9, 1966, 18-23

TOPIC TAGS: frequency control, phase measurement, PHASE SHIFT ANALYSIS

ABSTRACT: An experimental method for determining the error signal probability density and correlation coefficient caused by fluctuation noise in a phase-lock frequency. control system is described. An experimental set-up measures error signal distribution, occurrence frequency of phase jitter, the mean fluctuation frequency of the error signal, and jitter time duration. A digital phase meter with linear characteristics of  $-\pi$ — $+\pi$  radians with a recorder of random phase disturbance is part of the setup; it consists of a delay circuit, a sawtooth generator, and an oscillograph. The delay circuit, driven by pulses derived from a reference oscillator, controls the input to the sawtooth generator. The output of the sawtooth generator is fed to the vertical input of the oscillograph. A second output from the reference oscillograph. tor is fed into the horizontal input of the oscillograph through the phase-lock system and a pulse-shaping circuit. The error signal is displayed on the oscillo-UDC: 621.396.668

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ACC NR: AP6032288	 ن
graph under various signal to noise conditions, and phase jitter can be observeded. A second circuit, used for phase jitter duration measurements, has coincidence circuit that compares two signals, one derived directly from a reoscillator and the other derived from the reference oscillator and passed through the phase-lock circuit. The coincidence circuit detects phase shifts and initian output which lasts until phase coincidence between the two inputs is restorate method is highly accurate. Orig. art. has: 9 figures and 2 formulas.	a ference ough tiates
SUB CODE: 14/ SUBM DATE: 10Sep65/ ORIG REF: 008/ OTH REF: 001/ ATD FR: 5092	ESS:
$_{A^{\prime}}\mathcal{J}$	
/` Card 2/2	

ACC NR: AP6027914

SOURCE CODE: UR/0105/66/000/006/0049/0051

AUTHOR: Kazovskiy, Ye. Ya. (Doctor of technical sciences); Shakhtarin, V. N. (Engineer); Boltukhova, S. N. (Engineer; Leningrad); Mikhaylov, N. N. (Engineer; Moscow)

ORG: none

TITLE: Study of a superconductive magnetic system with no steel core

SOURCE: Elektrichestvo, no. 6, 1966, 49-51

TCPIC TAGS: magnetic coil design, superconductivity, uniform field generation, liquid helium temperature testing, inductance testing method, ferromagnetic superconductivity

ABSTRACT: The article discusses the results of a number of tests on a magnetic superconductive coil system without central iron feed core performed for the purpose of investigating field behavior and distribution patterns and determining optimum system configuration and geometric dimensioning. An analysis was made of magnetic fields generated by a current flowing in two square coaxial coils with their frontal sections bent back. The analysis was performed by the force imposition technique, on the assumption of an infinitely small coil section and on the further supposition that this section is located in the geometric center of the coil cross section. Coils were designed using superconductive wire, 0.25 mm in diameter, of 65BT alloy. The feed system

Card 1/2

UDC: 621.3.042.13:537.312.62

ACC NR: AP6027914

for a set of superconductive coils was experimentally tested by means of a heat shunt cross coupled with the coil center, and similar coils were also checked at the temperature of liquid helium with a current density up 468 A/mm<sup>2</sup> and an inductance of 0.785 Th. Pertinent mathematical formulas are derived and results are analyzed in the light of proper coil design for the production of a uniform field. Good agreement is found between the rated and the experimental magnetic field induction, thus substantiating the accuracy of the formulas and the validity of their method of substituting an infinitely thin turn passing through the geometric center of the coil cross section when analyzing a superconductive coil system of the geometry considered. The authors wish to express their gratitude to N. Ye. Alekseyevskiy for his valuable commentary and help in this study. Orig. art. has: 7 formulas and 3 figures.

SUB CODE: 20/ SUBM DATE: 18May65/ ORIG REF: 001/ OTH REF: 001

Card 2/2

5/0292/64/000/009/0008/0014

AUTHORG: Kazovskiy, Ye. Ya. (Doctor of technical sciences); Danilevich, Ya. B. ACCESSION UR: AP4045176 (Candidate of technical sciences); Shakhtarin, V. N. (Engineer)

TITLE: Prospects for producing high-power magnetohydrodynamic generators

SOURCE: Elektrotekhnika, no. 9, 1964. 8-14

TOPIC TAGS: MMD, conducting gas, magnetic field, Hall effect, current intensity,

ABSTRACT: Basic problems associated with the generation and utilization of MHD power were reviewed, and the theory of the MHD generator is outlined briefly. A geeded gas gimplified expression is obtained for the power output P from one-dimensional MHD and shown to possess a maximum ionization rate at minimum temperatures (2300-3300K). Both constant current and variable current generators are reviewed. The conduction type is shown to be more practical in the near future as opposed to the pulsed generator. The schematic of an open-cycle MID power plant is given, and the details of the various components are outlined. The one-dimensional MID theory for an ideal, conducting gas flow is treated in greater detail and mass, momentum, and

Cará 1/2

ACCESSION NE: AC4045176

energy conservation equations are obtained in a differential form. The effects of Hall currents, roundary losses, end losses, and magnetic losses are mentioned, and segmented electrodes are suggested to minimize some of these losses—especially the Hall currents. A set of efficiency expressions is obtained, including electrical efficiency, thermodynamic efficiency, and power efficiency. A long list of materials suitable for withstanding high-temperature corrosive atmospheres is presented (tantalum and zirconium carbides, refractory materials, etc). The experimental prototype designed at AVCO Research Center, Mass., USA is reviewed, and recommendations are made for a 500 megawatt power plant utilizing a combined nuclear reactor and an MHD generator. Orig. art. has: 20 formulas, 10 figures, and 1 table.

ASSOCIATION: none

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EWP(m)/EPA(w)-2/EWP(z)/EWT(1)/EWT(m)/T-2/EWP(b)/EPA(sp)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)-2/EWA(m)L 01223-66

EWA(d)/EWP(t) IJP(c) ACCESSION NR: AP5016664

UR/0382/65/000/002/0151/0158

621.3.044.2

AUTHOR: Shakhtarin, V. N.

TITLE: Investigation of dc electromagnets with iron cores in HHD generator appli-1 18.55

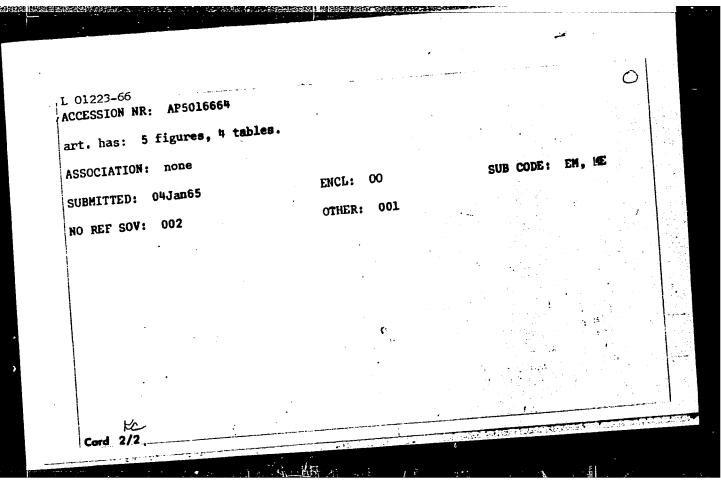
cations

SOURCE: Magnitnaya gidrodinamika, no. 2, 1965, 151-158

TOPIC TAGS: MHD generator, electromagnet, magnet, magnetic field intensity

ABSIRACT: Methods and results to determine leakage coefficients in iron-core electromagnets are presented. Two forms of iron cores, C and E types, are considered in detail. Graphical magnetization results are given for both types of magnets with rectangular cross section of the pole faces. Also, using the analogy between twodimensional electric potential on a resistive sheet and the two dimensional magnetic vector potential, a method for determining leakage coefficients is described. The resistive-paper method results are then compared with test measurements for the two types of magnets and show good agreement. The method is recommended, together with some detailed instructions, for design of electromagnets for NHD generators. Orig.

Card 1/2



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	L 45514-66 EWT(1)/T-2 LJP(c) AT/CD ACC NR: AT6016822 (A) SOURCE CODE: UR/0000/65/000/000/0215/0225
	AUTHOR: Shakhtarin, V. N.; Boltukhova, S. N.  ORG: none
	ORG: none
	TITLE: Large-capacity MHD generators using fuel-combustion products
	SOURCE: AN SSSR. Institut elektromekhaniki. Teoriya, raschet i issledovaniye vysokoispol'zovannykh elektricheskikh mashin (Theory, design, and research of electrical machinery in constant use). Moscow, Izd-vo Nauka, 1965, 215-225
	TOPIC TAGS: MHD flow, MHD generator, ges flow, theel you
	ABSTRACT: Fundamental design calculations for a 1000-Mw MHD generator are presented: channel shape and length, magnetic-system data, generator weight, and size. A set of equations describing the flow of ideal gas in a variable-cross-section channel is used to deduce formulas for generator operating parameters. Distribution of temperature, pressure, cross-section, and load parameter (electrical efficiency) along the channel is estimated for two versions: (1) Constant
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ı	TANDA TELAR DI LA RAI ALDEN DE LI DE LERGI EMPARTEMENTO, EL L'ATRE PER LE CELLE DE LA MARCE

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L 45514-66

ACC NR: AT6016822

gas conductivity, 30 mhos/m and (2) Gas conductivity  $\sigma = c \frac{T^{3/4}}{p^{3/4}}$ ; other data taken from S. Way and S. M. De Carso's paper (Trans. ASME, 1961, 83, no. 4, Ser. A, 397). Magnetic systems are calculated in two versions: (1) Steel-core system with a total steel-copper weight of 7.73 to 9.39 kg/kw; (2) Ironless coil system with deep cooling (A. Taylor et al., Proc. Intern. Conf. High Mag. Fields, 1-4 Nov 61, NY 1962; Klein, Symposium MHD Pwr. Generation, N. Castle, 6-8 Sep 62). Orig. art. has: 3 figures, 40 formulas, and 4 tables.

SUB CODE: 0940/ SUBM DATE: 04Aug65 / ORIG REF: 003 / OTH REF: 003

Card 2/2 hs

DEDIKOV, M.; SHAKHTARIN, Yu.; DUGINA, N.A., tekhnicheskiy redaktor

[Mechanization in industry; work practice of the Sverdlovsk loading and conveying machinery plant] Mekhanizatsiia proizvodstva; iz opyta sverdlovskogo zavoda transportnogo mashinostroeniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. 1954. 23 p. [Microfilm] (Machinery in industry)

KASHARSKIY, Engmar Grigor'yevich, nauchnyy sotrudnik; SHAKHTARIN, Valentin Nikolayevich, nauchnyy sotrudnik

Results of the measurement of losses in an experimental determination of the stray reactance of a turbogenerator with removed rotor. Izv. vys. ucheb. zav.; elektromekh. 4 no.12:110-116 '61. (MIRA 15:1)

l. Institut elektromekhaniki AN SSSR. (Turbogenerators)

DEDIKOV, M.F.; SHAKHTARIN, Yu.S.; DUGINA, N.A., tekhnicheskiy redaktor

[In the fight for a progressive section; from the work practice of the Sverdlovsk Transport] V bor'be za peredovoi uchastok; iz opyta raboty Sverdlovskogo zavoda transportnogo mashinostroeniia. Moskva. Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1954. 29 p.

(Machinery industry)

(MIRA 8:4)

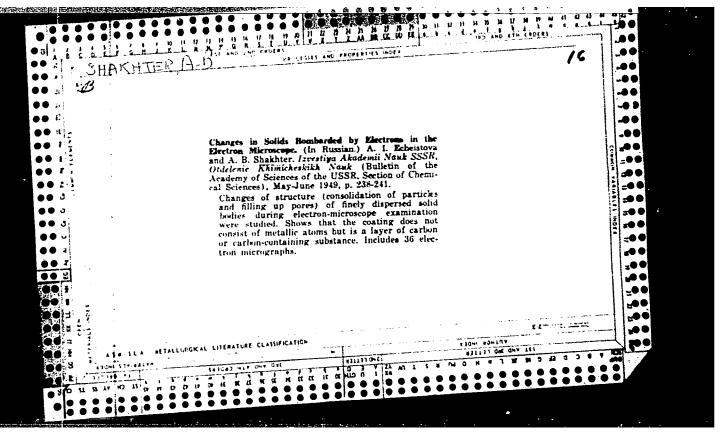
Mathematical Reviews Vol. 14 Ho. 9 October 1953 Geometry Čahtauri, A. I. On projective bending of a plane net. Sochščeniya Akad. Nauk Gruzin, SSR 11, 531-532 (1950). (Russian)

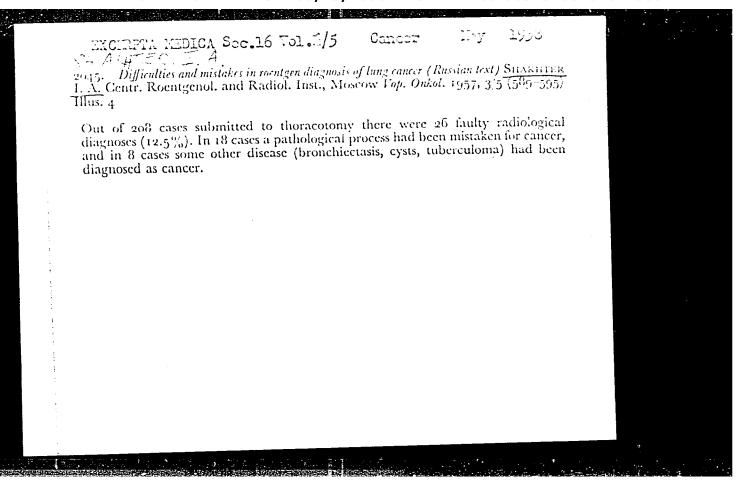
If  $x^{\alpha} = x^{\alpha}(u^{\dagger}, u^{\dagger})$ ,  $a_{ij}du^{i}du^{j} = 0$  define a plane net, they determine an affine connection  $\Gamma^{\alpha}_{(i)}$ . It is shown that if there are two such nets, projectively deformable into one, another, it is necessary and sufficient that

 ${\bf 1} \Gamma^{m}{}_{ij} = \Gamma^{m}{}_{ij} + p_i \delta_i{}^m + p_j \delta_i{}^m + \mu^m a_{ij}.$ 

The author proves that if the two nets form a configuration of Laplace,  $\mu^{m}=-\tilde{a}^{m}p_{n}$ , where  $p_{n}$  is a gradient.

M. S. Knebelman (Pullman, Wash.).





SHAR HTING D. IN.

USSR/Chemical Technology. Chemical Products and their Application. J-12 Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27712.

Author : I. Ye. Dudavskiy, D.M. Shakhtin.

Inst

: Electric Kryptol Muffle Furnace. Title

Orig Pub: Ogneupory, 1955, No 4, 182-183.

Abstract: The construction of a Kryptol laboratory furnace is described.

Its useful capacity is 200 x 230 x 125 mm, the working temperature is 1450 to 1500°, the uniform heating of the working space is guaranteed in it and the expenditure of electric power is reduced. The furnace is used for burning chamotte and Dinas and for deter-

mination of additional linear changes in them.

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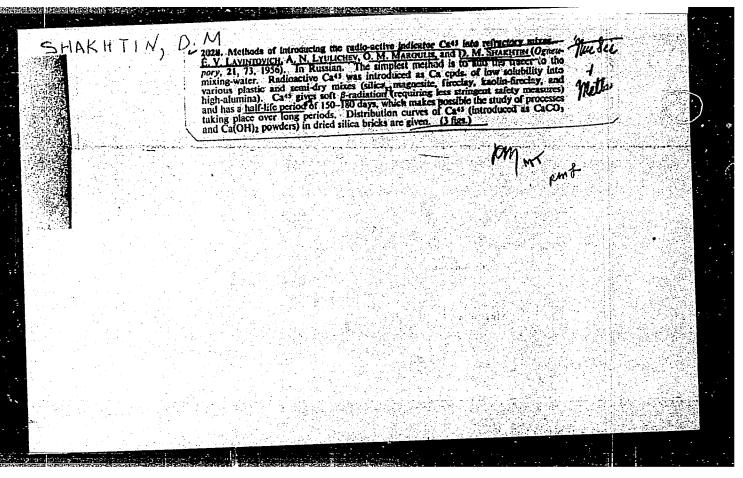
-96-

SHAKHTIN, D.M.

Luminescent method of detecting fine cracks in refractories before and after firing. Zav.lab. 21 no.10:1200-1201 155. (MIRA 9:1)

l. Vsesoyuznyy nauchno-issledovatel skivy institut ogneuporov.

(Refractory materials--Testing)



D-4

Shakhlin DIK

Cetevory : USSE/Atomic and Molecular Physics - Heat

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6298

Author : Chekhtin, D.M.

Inst : All-Union Scientific Research Institute for Refrectories.

Title : Instrument for Determining the Heat Conduction of Refrectories.

Orig Fub : Zevod. laboratoriya, 1956, 22, No 7, 869-871

Abstract : Posceiption of a setup which makes it possible to use bars

50 mm in diemeter end 56 mm high in lieu of specimens of the usual size (bricks). The everage test temperatures are raised to 900 - 1,000° (with the hot-end temperature being

1200--12500). The measurement accuracy is  $\pm 6\%$ .

Cerd : 1/1

137-58-6-13802

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 371 (USSR)

Lyulichev, A.N., Shakhtin, D.M. AUTHORS:

Use of a Readioactive Isotope of Calcium in Studying the Work TITLE

of Laboratory Mixers (Primeneniye radioaktivnogo izotopa kal'-

tsiya dlya izucheniya raboty laboratornykh smesiteley)

Byul. nauchno-tekhn. inform. Vses. n.-i. in-t ogneuporov, PERIODICAL:

1957, Vol 2, pp 93-98

A description of a method of control over mixing of charge ABSTRACT: material using radioactive Ca<sup>45</sup> as a tracer. The work was

done in a 600-g mixer with Z-shaped blades, on a 1-kg ceramic ball mill with silex balls, and on 3-kg crusher roll mills. The tests were run on a fine-grain silica batch with the grain composition, size of test samples, method of selection, and preparation of test samples being kept the same as in the case of working with magnetic powders. Into the silica batch ground to < 0.5-mm particle size, 1.5% Ca(OH)2 or CaCO3, tagged with Ca45, 0.5% of sulfite-alcoholic mash, and 8.0% of water are in-

troduced before mixing. During mixing by rollers or mixers

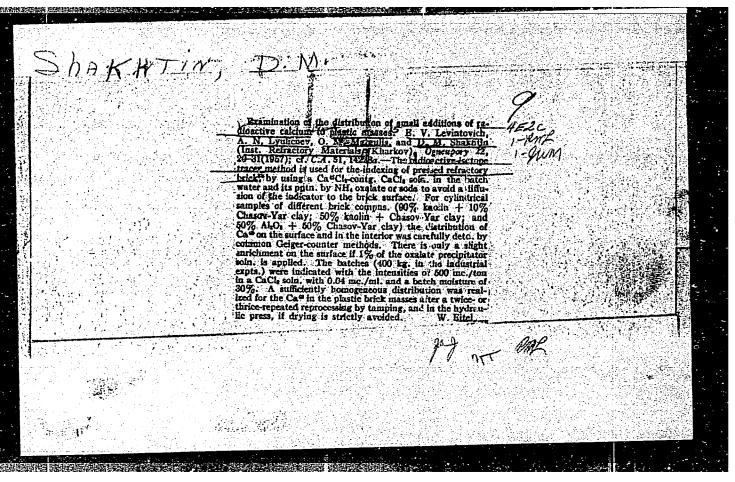
the additives were introduced simultaneously in the form of Card 1/2

137-58-6-13802

Use of a Radioactive Isotope of Calcium (cont.)

mills of lime. During experiments with the ball mill the active additives were added in the form of a finely ground chalk powder. At definite intervals during the work of the mixer five 10-gr test samples were drawn from the mixed material. Cylindrical specimens of 20-mm diam were pressed from the test samples under 1000 kg/cm<sup>2</sup> pressure. The intensity of radiation of dried specimens was measured with an end-window counter TM-20 on a "B" type radiographic counting apparatus. A special film holder was made to ensure identical geometrical conditions. The scattering of the values of radioactive intensity, characterized by the magnitude of the mean square deviation  $\Delta S$ , was chosen as the criterion of evaluation of the work of the mixers. From the blending curves plotted it is possible to determine the time of practical completion of mixing of the mass and of the homogeneity attained. The data obtained by radiographic measurements are confirmed as to the fact that the distribution of a tracer on addition of 0.3%  $Ca(OH)_2$  is considerably less perfect than on addition of 0.6%  $Ca(OH)_2$ . It is deduced that the method can be used for a comparative study of various blending units, especially when it is necessary to distribute small amounts of additives in the mass.

. Laboratory miners--Effectiveness 2. Laboratory miners--Test results S.S. 2. /sb ratory miners--Applications 4. Calcium isotopes (Radioactive)--Applications Card 2/2



#### CIA-RDP86-00513R001548410007-1 "APPROVED FOR RELEASE: 08/23/2000

AUTHORS:

Shakhtin, D.M., Vishnewskiy, I.I.

32-8-18/61

TITLE:

Determination of the Thermal Conductivity of Fireproof Substances in the Vacuum. (Opredeleniye teploprovodnosti ogneuporov v vakuume)

Zavodskaya Laboratoriya, 1957, Vol.23, Nr 8, pp. 927-929 (USSR)

PERIODICAL:

ABSTRACT:

The paper mentions as example the corresponding apparatus according to the method by Mc Quarrie (Am.Cera.Soc.) by which the thermal conductivity of fireproof pure oxides which are given the form of ellopsoids of revolution is determined in the vacuum. It is said that the use of such apparatuses is unsuitable for mass research work due to the complicated form which the samples must have. In this paper another apparatus is proposed (illustration given) in which the determination of the thermal conductivity of fireproof substances is carried out at high temperatures. The construction of this apparatus is based on the principle of a hollow cylinder with an absolute measurement of the stationary heat flow. Graphite and tantalum are suggested as materials for the performance of the research in the vacuum, in order to keep a high temperature in the experiments. Temperature of 1600-17000C are suitable. (a description of the apparatus and its application is given). Aluminumoxide and zirconiumdioxide samples of various porosity are here used samples for experiments. The obtained linear relation yields the possibility to proceed up to maximum temperatures of the sample in measurements of thermal conductivity. It was found that samples with approximately the same porosity yield almost identical results. In-

Card 1/2

Determination of the Thermal Conductivity of Fireproof Substances 32-8-18/61 in the Vacuum.

creased porosity reduces the thermal conductivity, but the character of the course of temperature of the thermal conductivity coefficient for a given material remains stable.

There are 3 illustrations.

ASSOCIATION: All-Union Scientific Research Institute for Fireproof Substances

(Vsesoyuznyy nauchno-issledovateľskiy institut ogneuporov)

AVAILABLE: Library of Congress.

Card 2/2

### CIA-RDP86-00513R001548410007-1 "APPROVED FOR RELEASE: 08/23/2000

Kraftmakher, Ya. A., Lyulichev, A. N.,

sov/32-24-7-51/6**5** 

AUTHORS:

Shakhtin, D. M.

TITLE:

The Investigation of the Operation of Laboratory Mixers by Means of Magnetic Indicators (Izucheniye raboty laboratornykh smesi-

teley pri pomoshchi magnitnykh indikatorov)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7,

pp. 893 - 895 (USSR)

ABSTRACT:

The apparatus constructed is based on the measurement of the magnetic conductivity of the samples in the low-frequency

magnetic field. The instrument measuring the magnetic

susceptibility was constructed by Ya.A.Kraftmakher. The measuring unit is an H-shaped armature on which three induction coils are arranged. The sample to be investigated is attached in such a way to the measuring unit that the magnetic flux passes through it; thus the inductive voltage in one of the coils is changed and the voltage of the measuring unit serves as a standard for the magnetic susceptibility of the sample. From the schematic representation of the apparatus given may be seen that a lowfrequency generator, the measuring unit, a low- frequency amplifier, a detector, a lamp voltmeter as well as a visual in-

Card 1/2

The Investigation of the Operation of Laboratory Mixers by Means of Magnetic Indicators

SOV/32-24-7-5 1/65

dicator and a supply pack are assembled. The instrument has six measuring ranges of from 10-4 to 10-1 units of magnetic susceptibility in the CGSM system: the degree of mixing is determined by the measuring of the concentration of the magnetic powder in the samples taken from different places. The concentration of the magnetic powder is measured according to the magnetic susceptibility of the specimens pressed from the samples to be investigated. Granular sizes of quartzite of up to 0,5mm were used in the experiments; iron powder of 2,5% Ca(OH)<sub>2</sub>, 0,5% sulfite alcohol vinasse, 6% water and 1,5% iron powder served as indicator. The results obtained were obtained from the mean value of the magnetic susceptibility and an equation; a diagram is given. There are 3 figures.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut ogneuporov (All-Union Scientific Research Institute For Refractories)

Card 2/2

### CIA-RDP86-00513R001548410007-1 "APPROVED FOR RELEASE: 08/23/2000

5/170/60/003/04/18/027 80289 B007/B102 Frenkel', A. S., Shakhtin, D. M., Kovalev, V. D. Measurement of the Diffusion Rate in Refractory Materials by Means 15.2200 Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 4, FP. 108-110 5.4100 TEXT: In earlier papers (Refs. 1, 2, 3) the method of taking-off layers (Ref. 4) was used for the determination of the diffusion coefficient by means of radio-AUTHORS: TEXT: In earlier papers (Refs. 1, 2, j) the method of taking-off layers (kef. adio-was used for the determination of the diffusion coefficient by means of radio-active isotones. In the paper of Ref. 5 the absorption method was employed in was used for the determination of the diffusion coefficient by means of radio-was used for the determination of the absorption method was employed in active isotopes. In the paper of Ref. 5 the absorption method was improved for the investigation of the autodiffusion of conner. TITLE: active isotopes. In the paper of Ref. 5 the absorption method was employed in the investigation of the autodiffusion of copper. This method was improved for the investigation of the autodiffusion of sotopes with beta- and gamma-emission as indicating the case of an application of isotopes with betathe investigation of the autodiffusion of copper. This method was improved for an application of isotopes with beta- and gamma-emission as indicatine case of an application of isotopes with diffusion coefficient according to the tors (Ref. 6). The determination of the diffusion coefficient the case of an application of isotopes with beta- and gamma-emission as indicators (Ref. 6). The determination of the activity of beta- and gamma-radiation the activity of beta- and gamma-radiation of the activity of beta- and gamma-radiation the activity of beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with beta- and gamma-emission as indicators the case of an application of isotopes with the activity of beta- and gamma-emission as indicators the case of an application of isotopes with the activity of beta- and gamma-emission as indicators the case of an application of isotopes with the activity of beta- and gamma-emission as indicators the case of a case PERIODICAL tors (Ref. b). The determination of the diffusion coefficient according to the improved method consists in measuring the activity of the general diffusion that the general diffusion after annealing. The respective solution of the general diffusion that the general improved method consists in measuring the activity of beta- and gamma-radiation of the general diffusion. The respective solution of the general formula selection is used for the determination of the diffusion coefficient: Solve and after annealing. The respective solution of the general diffusion (1).

Solve and after annealing. The respective solution of the diffusion coefficient: formula

the present name this method was used by the authors for studying the squation is used for the determination of the diffusion coefficient; formula the present paper this method was used by the authors for studying the the present paper this method was used by the authors materials and the present paper or the present paper this method was used by the authors for studying the and in effusion of ferrous oxides in refractory chromium-magnesite materials and in the state of the blast-furnace burden. The experiments are briefly main components of the blast-furnace burden. or ferrous oxides in refractory chromium-magnesite materials and in the state of the blast-furnace burden. The experiments are briefly main components of the blast-furnace card 1/3

Measurement of the Diffusion Rate in Refractory Materials by Means of the Absorption Method 80289 5/170/60/003/04/18/027 B007/B102

described. When the measured absorption coefficients were used in calculating the diffusion rate, considerably lower values compared to those of the takingoff layers method were obtained. Analogous results were obtained in the papers mentioned in Refs. 8 and 9. The analysis of the results showed that the absorption coefficient  $\mu$  of beta-radiation when measured according to the absorption method is not equal to the  $\mu$ -value determined according to the direct method. An assumption is made concerning the reasons of such a divergence. In order to remove factors which cause this divergence and which cannot be estimated, the absorption coefficient  $\mu$  of beta-radiation was determined by an indirect way, as in the paper mentioned in Ref. 12. The dependence of the mass absorption coefficient M  $9 (cm^2/g)$  on the ratio of the integral intensities of beta- and gamma-radiation was determined by experiment for various refractory materials (Fig. 1). The experiments showed that it is possible to employ the convenient absorption method in the study of absorption processes in refractory materials. The temperature dependence of the diffusion coefficients of some refractory materials is given in Fig. 2 as an example of the application of the absorption method in determining the diffusion parameters. There are 2 figures and 12 references, 10 of which are Soviet.

Card 2/3

s/131/60/000/010/001/002 BO21/B058

Frenkel', A. S., Shakhtin, D. M., and Kovalev, V. D.

The Use of Tagged Atoms for Investigating the Diffusion of AUTHORS: Iron Oxide in Refractory Chromium Magnesite Products TITLE:

Ogneupory, 1960, No. 10, pp. 460 - 467 PERIODICAL:

TEXT: The present paper gives the results obtained from a study of the process mentioned in the title. The method of removing layers by grinding and the absorption method were used for measuring the diffusion. The indicator was applied in the form of a fine-disperse suspension. A radioactive iron oxide preparation was used as diffusing material. The samples were fired in an electric kryptol furnace of the type BHMM0-120 (VNIIO-120). Thin layers were ground off the samples after firing, and the remaining activity of the samples was measured. The radiation intensity was measured by radiometric systems of the type  $\overline{b}$  (B) and  $\overline{b}$ -2 (B-2). Counters of the type  $\overline{MCI}$ -17 (MST-17) and  $\overline{I}$ -25  $\overline{D}$  (T-25 BFL) were used for the  $\overline{b}$ -radiation. The tangent of the angle of inclination of the straight line was graphically determined according to the method by P. L. Gruzin Card 1/2

The Use of Tagged Atoms for Investigating the S/131/60/000/010/001/002 Diffusion of Iron Oxide in Refractory Chromium B021/B058 Magnesite Products

(Fig. 1). Positive results were also obtained with the absorption method. The characteristics of the refractory products investigated are listed in Table 1. The values of the diffusion coefficients for samples from purified chromite may be seen from Table 2 and their temperature dependence from Fig. 2. The temperature dependence of the diffusion coefficients for chromium magnesite samples is mentioned in Fig. 3, and reference is made to the paper by V. V. Goncharov. The calculated phase composition of the refractory magnesite products investigated is given in Table 3. The temperature dependence of the diffusion coefficients of refractory magnesite products is shown in Fig. 4 and that of the refractory products investigated in Fig. 5. The authors state in conclusion that the measurements of the diffusion coefficient were checked and defined by the method of grinding-off and that of the absorption method. Both methods produced conforming results. There are 5 figures, 3 tables, and 11 references: 9 Soviet.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (Ukrainian Scientific Research Institute of Refractories)

Card 2/2

FRENKEL', A.S.; SHAKHTIN, D.M.; KOVALEV, V.D.

Using tagged atoms in studying the diffusion of the ferric oxide in chromemagnesite refractories. Ogneupory 25 no.10:460-467 60.

(MIRA 13:10)

1. Ukrainskiy nauchmo-issledovatel skiy institut ogneuporov.
(Radioactive tracers) (Refractory materials)

s/032/60/026/02/020/057 21(4), 28(5), 15(2) B010/B009 Shakhtin, D. M., Kovalev, V. D. AUTHORS: Absorption of Co Beta Radiation in Refractories TITLE: Zavodskaya laboratoriya, 1960, Vol 26, Nr 2, pp 173 - 175 PERIODICAL: (USSR) The coefficients of the absorption of beta rays in various refractories (Cr203, Al203, Fe203, chromite, chromium magne-ABSTRACT: site) were determined and the influence of the geometrical factors upon the absorption coefficients was investigated by means of aluminum and mica laminas. The source of radiation was a thin layer of a Co preparation. A BFL-25 end window counter was used for recording. The operating distance between source of radiation and counter was 5 cm. The most accurate exponential function of the beta ray absorption was obtained (Fig 2, Curves) when the ray absorber was placed twice as far from the counter as from the radiation source (Fig 1). The present experiments were therefore conducted with such an arrangement. The values of the absorption coefficients obtained with the above materials are given (Fig 3); they exhibit Card 1/2

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410007-1 SOME STATE OF THE PROPERTY OF

Absorption of  $Co^{60}$  Beta Radiation in Refractories S/032/60/026/02/020/057B010/B009

a maximum error of 1%. Simultaneously the absorption coefficients of type  $R_{m}^{(i)}$  compounds were calculated by means of an equation from data furnished by V. I Baranov (Ref 5) and compared with the measured values (Table 1) Part of the measured values differ greatly from the calculated values. If the exact absorption coefficient of a chemical compound is required it has therefore to be established experimentally. The absorption coefficients of the refractory materials (chromite, chromium magnesite) Wealculated from the absorption coefficients of the oxides contained in them agree satisfactorily with the experimental data (Table 2). There are 3 figures, 2 tables, and 6 references, 4 of which are Soviet

ASSOCIATION: Ukrainskiy nauchno-isaledovatel skiy institut ogneuporov (Ukrainian Scientific Research Institute of Refractories)

Card 2/2

E712207

SHAKHTIN, D.M.; LEVINTOVICH, E.V.

Determination of the specific surface of clays and kaolins by means of radioactive tungsten [with summary in English]. Koll.zhur. 23 no.4:495-498 Jl-Ag '61. (MIRA 14:8)

#### CIA-RDP86-00513R001548410007-1 "APPROVED FOR RELEASE: 08/23/2000

s/081/63/000/002/038/088 B156/B444

AUTHORS:

Levintovich, E.

TITLE:

Radioactive isotopes used for testing the grinding of

magnesite refractory substances

PERIODICAL:

Referativnyy thermal: Knimiya, no. 2, 1963, 370, abstract 2M25 (Sb. nauchus tr. Ukr. n. -1. in-t ogneuporov, no.5 (52),

1961, 336-341)

TEXT: The basis of this method of testing is the determination of the amount of radioactive aubstance adsorbed by the surfaces of grains of ground magnesite; the testing process consists of the following stages: determination of the specific surface area by adsorptive capacity, 1.e. by the number of mg of the radioactive substance adsorbed by 1 g of substance; this is found from the difference between the radioactivity of solutions before and after adsorption. The specific surface area of burnt magnesite was determined using an alcohol solution of CaCl and a wateralcohol solution of sodium tungstate, labeled with the radioactive isotopes

LEVINTOVICH, E.V.; SHAKHTIN, D.M.; KULIK, A.I.; LOGACHEV, M.S.; MIROSHNICHENKO, V.Ya.; SLAVGORODSKAYA, Ye.Ya.

Determining the weight by volume and density variations of a glass bar by the absorption of gamma rays. Cgneupory 28 no.1: 17-21 '63. (MIRA 16:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Levintovich, Shakhtin). 2. Chasov-Yarskiy kombinat ogneupornykh izdeliy (for Kulik, Logachev, Miroshnichenko, Slavgorodskaya).

(Refractory materials--Testing)
(Gamma rays--Industrial applications)

LEVINTOVICH, E.V.; SHAKHTIN, D.M.; MALIKOVA, T.V.; RUTMAN, D.S.

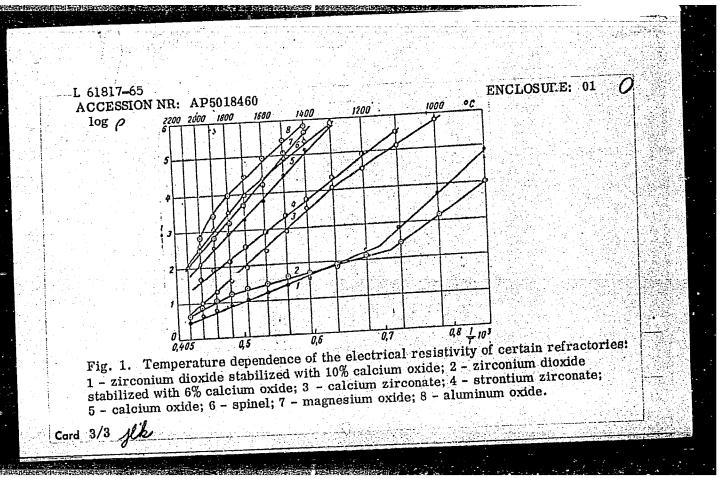
Determining the apparent porosity of refractories by their volumetric weight. Ogneupory 29 no.1:21-24 '64. (MIRA 17:3)

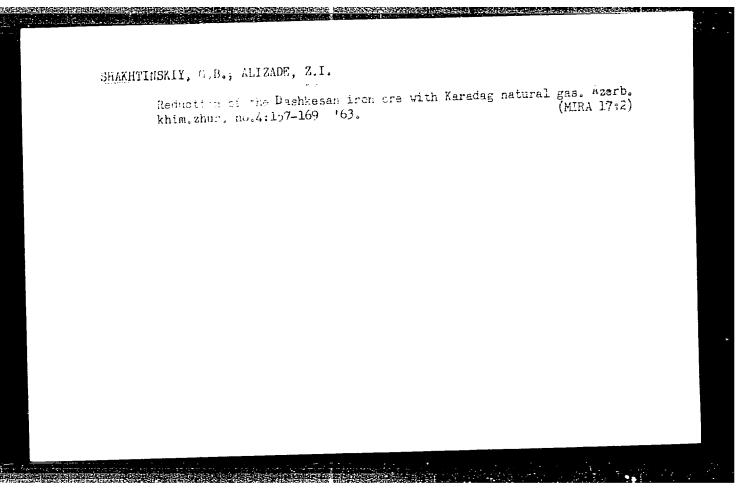
1. Ukrainskiy nauchno-issledovatel skiy institut ogneuporov (for Levintovich, Shakhtin). 2. Podol skiy zavod ogneupornykh izdeliy (for Malikova, Rutman).

CCESSION NR: AP4033622	•	s/0032/64/030/004/	<u>:</u>
	.; Levintovich, E. V.; Prasl I.; Zheltobryukh, V. P.; V	ko, V. S.; Alekhin, A. I ashchenko, V. P.	• •
TTTLE: Apparatus for de	termining the density of gl	ses beams by gamma ray s	bsorption
COURCE: Zavodskava labo	ratoriya, v. 30, no. 4, 196	4, 501-502	14.
COPIC TAGS: measuring a	pparatus, glass property, d	ensity measurement, game	
of glass beams by measur material. The source of radium shielded by 20 cm 40 x 40 mm NaI crystal. within 0.01 gm/cm <sup>2</sup> in 3	described for the nondestrucing the attenuation of gamma gamma rays is Co with an of lead. The detector is The density of products 25-4 minutes. Orig. art. has	activity of 20 mg-squia scintillation counter 0-350 mm thick can be do 1 diagram.	wof with a etermined
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SUBMITTED: 00	DATE ACQ: 28Apr64		ENCL: 00
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DOD CODE: MI		•	: 1

L 61817-65 EWG(j)/EWP(e)/EWT(m)/EWP(w)/EPF(c)/EWP(1)/EPF(n)-2/EWG(m)/ EWA(d)/T/EWP(t)/EWP(b) Pr-4/Ps-4/Pu-4 IJP(c)/AEDC JD/JG/AT/WH ACCESSION NR: AP5018460 UR/0131/65/000/007/0037/0041 666.76:621.3.011.2 AUTHOR: Shakhtin, D.M.; Levintovich, E.V.; Pivovar, T.L.; Yeliseyeva, G.G. TITLE: Electrical conductivity of refractory oxides at high temperatures SOURCE: Ogneupory, no. 7, 1965, 37-41 TOPIC TAGS: refractory oxide, electrical conductivity, zirconium refractory, aluminum refractory, electrical resistance, magnesium refractory ABSTRACT: The article deals with the temperature dependence of the electrical conductivity of refractory materials prepared from oxides of aluminum; magnesium calcium, and zirconium (see Fig. 1 of the Enclosure). The measurements were carried out at 900-2300C in a special furnace, both in an inert medium (argon or nitrogen) at 1 atm and in a vacuum. The experimental conditions employed permitted the measurement of high electrical resistances at high temperatures. The maximum resistance was displayed by samples containing 99.67 and 98.52% MgO. The presence of ferric oxide decreased the resistance of the materials. The influence of porosity on the latter was also investigated. In order of increasing electrical resistivity, the materials can be arranged as follows: zirconium dioxide stabilized with calcium oxide Card 1/3

L 61817-65	10460		2
oxide < aluminum oxide for determining the ele 5 figures and 3 tables.	strontium zirconate < calc e. As a result of the stud ectrical resistance of vari	nium oxide, < spinel < magne y, optimum conditions were ous refractories. Orig. art	. has:
ASSOCIATION: Ukrair Scientific Research Ins	nskiy nauchno-issledovate stitute of Refractories)	l'skiy institut ogneuporov (U	crainian
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	OTHER: 002	SUB CODE: MT	
NO REF SOV: 016	OTHER: 002	SUB CODE; MT	





"Tertiants of low intensity in Industry and their effect on the organism."

report submitted at the 13th Alli-Union Congress of Hygienists, Epide lologists and Infectionists, 1959.

L 36208-66 ACC NR: AP6011664 SOURCE CODE: UR/0106/66/000/004/0025/0031

AUTHOR: Shakhtarin, B. I.

ORG: none

TITLE: Filtering capability of the phase-lock automatic frequency control

SOURCE: Elektrosvyaz', no. 4, 1966, 25-31

ABSTRACT: Based on an analysis of asymptotic solutions of the Kolmogorov equation (small fluctuation of error signal), the linear and quasi-linear approximations are developed in the entire range of initial phase differences ("detuning") and signal-to-noise ratio. J. A. Develet (IEEE Trans., SET-9, 1961, no. 1) developed a formula for the error-signal dispersion with zero initial phase difference; this article presents a plot of this dispersion vs. initial phase

Card 1/2 UDC: 621.396.668

L 36208-66

ACC NR: AP6011664

difference, with a fixed signal-to-noise ratio. A formula is developed for the limit signal-to-noise ratio which determines, for a specified initial phase difference, the near-unity probability of phase jumps in the phase-lock system. The quasi-linear method permits calculating the error-signal dispersion with practically the accuracy obtainable with the nonlinear method. Orig. art. has:

SUB CODE: 17,09 / SUBM DATE: 15Apr65 / ORIG REF: 008 / OTH REF: 002

Card 2/2 11/2

SHAKHTHIMETER, I. YA.

Skin - Diseases

Study of the therapeutic value of nigrine in some forms of pyoderma. Vest. ven. i derm. no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

SHAKHTEYSTER, I. YA.

Gastric Juice

Role of the stomach in interstital protein metabolism and secretion of the gastric glands in eczema. Vest. ven. i derm. no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195% Unclassified.

SHAKHTMEYSTER, I.Ya., kandidat meditsinskikh nauk; TOPORKOV, N.P.

Liver function in patients with syphilis. Vest.ven. i derm. 30 no.2:49 Mr-Ap 156. (MLRA 9:7)

1. Iz Sverdlovskogo oblastnogo kozhno-venerologicheskogo instituta. (LIVER--SYPHILIS)

SHAKHTMEYSTER, I.Ya, kand.med.nauk, POTEKAYEV, N.S., aspirant

Vitamin B6 in the treatment of certain dermatoses [with summary in English]. Vest.derw. i ven. 32 no.4:27-29 Jl-Ag '58 (MIRA 11:10)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - chlen korrespondent AMN SSSR prof. V.A. Rakhmanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(ESCRIASIS, ther.

vitamin B6 (Rus))

(NEURODERMATITIS, ther.

same (Rus))

(DERMATITIS SERORHEICA, ther.

same (Rus))

(VITAMIN B6, ther. use
dermatitis seborrheica, neurodermatitis & psoriasis
(Rus))

SHAKHTMEYSTER, I.Ya., kand.med.nauk

Role of the stomach in nitrogen metabolism in eczema patients.

Sbor. nauch. rab. po lepr. i derm. no.13:87-90 '59. (MIRA 14:6)

(NITROGEN METABOLISM) (ECZEMA)

(STOMACH-SECRETIONS)

ROMANIENKO, G.F., kand.med.nauk; SHAKHTMEYSTER, I.Ya., kand.med.nauk

Importance of the Thorn test in treating certain skin diseases with ACTM. Vest.derm. i wen. 33 no.3:77-78 My-Je '59. (MIRA 12:9)

1. Iz kafedry kozhnykh i venericheskikh bolezney I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(SKIN-DISEASES) (ACTH)

SHAKHTMEYSTER, I.Ya., kand.med.nauk; CHERTKOV, I.L., kand.med.nauk; KARPUSHKIR, V.P.

State of the properdin system in patients with syphilis. Vest. derm. i ven. 37 no.1:62-65 Ja'63. (MIRA 16:10)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav.-chlen korrespondent AMN SSSR prof. V.A.Rakhmanov) I Moskovskogo ordena Lenina meditsinskogo instituta i zadiobilogicheskoy laboratorii (zav. - prof. M.O.Raushenbakh) TSentral'nogo instituta gematologii i perelivaniya krovi.

(SYPHILIS) (PROPERDIN)

SHAKHTMEYSTER, I. Ya., kand. med. nauk; ROGOV, A.A., kand. med. nauk

Morphological manifestation of retarded allergy in eczema and neurodermatitis; histochemical study. Vest. derm. i ven. 37 no.12:11-15 D 163 (MIRA 18:1)

1. Kafedra kozinykh belezney (zav. - chlen korrespondent ANN SSSR prof. V.A. Rakhmanov) I Moskovskogo ordena Lenina meditisinskogo instituta imeni I.M. Sechenova i TSentral'naya nauchno-issledovatel'skaya laboratoriya imeni S.I. Chechulina (zav. - kand. med. nauk A.S. Chechulin).

ROMANENKO, G.F., kand. med. nauk; SHAKHTMEYSTER, 1.Ya., kand. med. nauk

Treatment of eczema patients in health resorts. Vest. derm. i ven. 38 no.8:68-70 Ag '64. (MIRA 18:8)

1. Kafedra kezhnykh i venericheskikh bolezney (zav.- chlenkorrespondent AMN SSSR prof. V.A. Rakhmanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

BELOSHAPKO, P. A; SHAKHTMEYSTER, S. Ya.

Simple method of roentgenologic measurement. Akush. gin., Moskva no. 2:35-38 Mar-Apr. 1952, (CLML 22:2)

1. Professor for Beloshapko; Candidate Medical Sciences for Shakhtmeyster. 2. Of the Institute of Obstetrics and Gynecology (Director -- L. G. Stepanov), Ministry of Public Health USSR.